

Abstract

MULTIPLE LEVEL MINIMUM LOGIC NETWORK

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A network or interconnect structure utilizes a data flow technique that is based on timing and positioning of messages communicating through the interconnect structure. Switching control is distributed throughout multiple nodes in the structure so that a supervisory controller providing a global control function

- 5 and complex logic structures are avoided. The interconnect structure operates as a "deflection" or "hot potato" system in which processing and storage overhead at each node is minimized. Elimination of a global controller and buffering at the nodes greatly reduces the amount of control and logic structures in the interconnect structure, simplifying overall control components and network interconnect
- 10 components and improving speed performance of message communication.

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